

### Abstract of the Disclosure

An apparatus is provided for controlling a joint force of a friction-joint component placed in a torque transmitting mechanism (e.g., transmission) mounted on a vehicle. The friction-joint component  
5 is connected to a drive source. The apparatus comprises a guideline producing unit, joint force controlling unit, and drive force controlling unit. The guideline producing unit produces a first target operation guideline for the torque transmitting mechanism and a second target operation guideline for the drive source. The first target operation  
10 guideline includes a transmitted torque capacity of the torque transmitting mechanism. The joint force controlling unit controls the joint force based on the first target operation guideline. The controlling unit includes a unit setting a value to the joint force depending on the information regulating the transmitted torque capacity. The drive force  
15 controlling unit controls a drive force of the drive source based on the second target operation guideline.